

Computer Engineering B.S. - 4 Year Degree Plan

2025-2026

Lamar University's **Bachelor of Science in Computer Engineering** focuses on technological innovation, shaping the future across industries in various fields that include embedded hardware and software systems, computer networks and cybersecurity, robotics, machine learning and artificial intelligence, signal processing, etc. You will have opportunities to collaborate with distinguished faculty, engage in cutting-edge research and develop skills that will prepare you to become leaders and innovators in the field of computer engineering.

NOTE: Degree plans may change over a four-year period. This may not be the most current list of course requirements for your program. It is always advised that you check Degree Audit in Banner Self-Serv or your advisor for the most up-to-date degree requirements and to track your progress toward a degree.

FIRST YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	MATH 2413	Calculus and Analytical Geometry I	4	_____	MATH 2414	Calculus and Analytical Geometry II	4	_____
	CHEM 1311 and CHEM 1111	General Chemistry I and Gen Chem I Lab	4	_____	ENGL 1301	Composition I	3	_____
	ELEN 1100	Introduction to ECE	1	_____	PHYS 2425	University Physics I	4	_____
	Social and Behavioral Sciences		3	_____	History Elective		3	_____
	Communication Core		3	_____	ELEN 1301	Computers and Programming I		_____
		Hours	15	_____		Hours	14	_____
SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	MATH 2415	Calculus III	4	_____	MATH 2320	Ordinary Differential Equations	3	_____
	MATH 2318	Linear Algebra	3	_____	COSC 2375 or MATH 3321	Discrete Structures or Discrete Structures	3	_____
	PHYS 2426	University Physics II	4	_____	ELEN 2411	Circuits Analysis I	4	_____
	INEN 3320 or MATH 3370	Probability and Statistics for Engineering or Intro to the Theory of Stat Inference	3	_____	ELEN 3431	Digital System Design I	4	_____
	PHIL 1370	Philosophy of Knowledge	3	_____	ELEN 2301	Computers and Programming II	3	_____
		Hours	17	_____		Hours	17	_____
THIRD YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	ELEN 3421	Electronics I	4	_____	ELEN 3340	Digital Integrated Circuits	3	_____
	ELEN 3320	Computer Networks	3	_____	ELEN 3313	Signals, Systems and Transforms	3	_____
	ELEN 4486	Embedded Microprocessor Systems	4	_____	ELEN 3451	Digital System Design II	4	_____
	ELEN 3330	Operating Systems	3	_____	ELEN 4387	Computer Organization and Architecture	3	_____
	POLS 2301	Intro to American Government I	3	_____	POLS 2302	Intro/American Government II	3	_____
		Hours	17	_____		Hours	16	_____
FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	ELEN 4306	Senior Project Design I	3	_____	ELEN 4307	Senior Project Design II	3	_____
	ELEN 4314	Fundamentals of Digital Signal Processing	3	_____	ELEN Elective		6	_____
	ELEN Elective		3	_____	History Elective		3	_____
	Fine Arts Core		3	_____				_____
		Hours	12	_____		Hours	12	_____